PE NUMBER AND TITLE

# **ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)**

DATE

February 2000

BUDGET ACTIVITY

#### 4 - Demonstration and Validation

0603308A Army Missile Defense Systems Integration

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COST (In Thousands)	FY1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	37929	61528	12573	15760	16411	21955	22272	Continuing	Continuing
D979 Tactical Simulation Interface Unit (TSIU)	1445	0	0	0	0	0	0	0	1445
D988 Range Upgrades	4816	0	0	0	0	0	0	0	4816
D989 Nautilus/THEL	12038	18618	0	0	0	0	0	0	30656
D990 Space and Missile Defense (SMD) Integration	2983	28900	3398	3566	3847	9145	9158	Continuing	Continuing
D997 Space and Missile Defense Battlelab (SMDBL)	16647	14010	9175	12194	12564	12810	13114	Continuing	Continuing

A. Mission Description and Budget Item Justification: HQDA General Order No. 5, 1 March 1998, designated the US Army Space and Missile Defense Command (USASMDC), the specified proponent for space and National Missile Defense (NMD) and the operational integrator for Theater Missile Defense (TMD). In response to this designation, the Missile Defense Battle Integration Center (MDBIC) and other existing USASMDC elements were reorganized and merged to form the Space and Missile Defense Battle Lab (SMDBL). The SMDBL is chartered to develop warfighting concepts, focus military science and technology research, and conduct warfighting experiments. The reorganization also created the Force Development and Integration Center (FDIC), a major support element of USASMDC. This project funds the FDIC, which was created to execute the specified proponency role of the USASMDC. The FDIC develops space and NMD solutions to Doctrine, Training, Leader Development, Organization, Materiel, and Soldiers (DTLOMS) and executes their implementation. This project funds the production of requirements for hardware and software solutions, the interfaces with technology development, and the development of operational and system architectures for Space, NMD and TMD. In addition, this project funds analysis and experimentation designed to integrate the pillars of TMD (active defense, passive defense, attack operations, and battle management/command, control, communications, computers, and intelligence functions) and to input Army TMD requirements into Joint forums. This program also supports Aviation and Artillery attack operation systems and passive missile defense material solutions.

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Exhibit R-2 (PE 0603308A)

## **ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)** DATE February 2000 BUDGET ACTIVITY PE NUMBER AND TITLE 4 - Demonstration and Validation 0603308A Army Missile Defense Systems Integration **B. Program Change Summary** FY 1999 FY 2000 FY 2001 Previous President's Budget (FY 2000/2001 PB) 12580 38957 12353 Appropriated Value 39240 63553 Adjustments to Appropriated Value a. Congressional General Reductions -283 -874 b. SBIR / STTR c. Omnibus or Other Above Threshold Reductions -236 Below Threshold Reprogramming +2-1000 -789 Rescissions -156 Adjustments to Budget Years Since FY 2000/2001 PB Current Budget Submit (FY 2001 PB) 12573 37929 61528 Page 2 of 14 Pages Exhibit R-2 (PE 0603308A)

#### DATE **ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)** February 2000 BUDGET ACTIVITY PE NUMBER AND TITLE **PROJECT** 0603308A Army Missile Defense Systems 4 - Demonstration and Validation D979 Integration FY1999 FY 2000 FY 2001 FY 2002 FY 2003 FY2004 FY2005 Cost to **Total Cost** COST (In Thousands) Actual Estimate Estimate Estimate Estimate **Estimate** Estimate Complete D979 Tactical Simulation Interface Unit (TSIU) 1445 0 0 1445

**A.** <u>Mission Description and Budget Item Justification:</u> As the Army moves toward digitization, Force XXI and beyond, many command and control functions that were once done by grease pencil and map overlays have been replaced by automated, computer controlled workstations. Until only recently, training soldiers on their workstations with realistic simulations was not possible. The Tactical Simulation Interface Unit (TSIU) bridges the gap between the simulation environments and command and control systems by interfacing with simulations compliant with the Institute of Electrical, Electronic Engineer (IEEE) standards governing the use of Distributed Interactive Simulations. The TSIU is a computer "black box" which interfaces, processes, and routes computer-generated simulations to the appropriate Command, Control, Communications, Computers, and Intelligence (C4I) systems. The C41 operator then inputs orders from his workstation, causing the process to be reversed and the simulation to respond accordingly. The TSIU provides the hardware to permit "human in the loop" training to take place using simulations on tactical workstations. The program was accepted as a Warfighter Rapid Acquisition Program (WRAP) initiative, permitting a rapid acquisition of the system to take place.

#### **FY 1999 Accomplishments:**

• 1445 Deve

Developed and prepared documentation, standards, qualifications, and other requirements taking the TSIU from the research laboratory to an acquisition program. Defined and documented message protocols, linking simulations for aviation, artillery fires, Unmanned Aerial Vehicles, and air defense to tactical message formats, including: Variable Message Format; U.S. Messages Test Format; Moving Target Indicator and Position; Tactical Data Link-B (TADIL-B), Tactical Information Broadcast Services (TBIS), TRAP Data Dissemination (TDDS); Secure Comm Data Link (SCDL); and FAAD Data Link (FDL).

Total 1445

FY 2000 Planned Program: Project not funded in FY 2000

**FY 2001 Planned Program:** Project not funded in FY 2001

C. <u>Acquisition Strategy</u>: Not applicable

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BUDGET ACTIVITY 4 - Demonstration and Validation				MBER AND TI 3308A A gration	ms	PROJEC <b>D979</b>			
D. Schedule Profile	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005		
Format Definition	1-3 Qtr								
Documentation	2nd Qtr								
Build 1 Dev	4th Qtr								
One SAF Integration	3rd Qtr								

#### DATE **ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)** February 2000 BUDGET ACTIVITY PE NUMBER AND TITLE **PROJECT** 0603308A Army Missile Defense Systems **D988** 4 - Demonstration and Validation Integration FY1999 FY 2000 FY 2001 FY 2002 FY 2003 FY2004 FY2005 Cost to **Total Cost** COST (In Thousands) Actual Estimate Estimate Estimate Estimate **Estimate** Estimate Complete D988 Range Upgrades 4816 0 0 4816

**A.** <u>Mission Description and Budget Item Justification</u>: Project D988 funds completed range upgrades in support of Atmospheric Interceptor Technology flight tests. In late 1999, the U.S. Army Space and Missile Defense Command participated in the second of two flights from Kodiak Island, Alaska, designed to provide an opportunity for demonstrating various elements potentially suitable for incorporation into a ballistic missile defense system. The flight is a follow-on to the successful missile defense risk reduction flight conducted from Vandenberg Air Force Base, California, on November 5, 1997, and the ballistic missile defense demonstration flight conducted from Kodiak Launch Complex, Alaska, on November 5, 1998.

#### **FY 1999 Accomplishments:**

• 4816 Support of test infrastructure upgrades for flight tests involving Atmospheric Interceptor Technology (AIT) interceptor components at the Kodiak Launch Complex on Kodiak Island, AK.

Total 4816

FY 2000 Planned Program: Project not funded in FY 2000

**FY 2001 Planned Program:** Project not funded in FY 2001

**C.** <u>Acquisition Strategy</u>: Not applicable beyond FY99.

D. Schedule Profile	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2004	FY 2005
Initiate long-lead & fabrication	2 <sup>nd</sup> Qtr							
Complete fabrication/integration	4 <sup>th</sup> Qtr							

Project D988 Page 5 of 14 Pages Exhibit R-2A (PE 0603308A)

#### DATE **ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)** February 2000 BUDGET ACTIVITY PE NUMBER AND TITLE **PROJECT** 0603308A Army Missile Defense Systems 4 - Demonstration and Validation D989 Integration FY1999 FY 2000 FY 2001 FY 2002 FY 2003 FY2004 FY2005 Cost to **Total Cost** COST (In Thousands) Actual Estimate Estimate Estimate Estimate **Estimate** Estimate Complete D989 Nautilus/THEL 12038 18618 0 30656

A. <u>Mission Description and Justification:</u> Project D989 funds continue the Tactical High Energy Laser (THEL) Advanced Concept Technology Demonstration (ACTD) and field testing at the High Energy Laser Systems Test Facility (HELSTF). The THEL ACTD is a joint U.S./Israel program to design, fabricate, and test a tactical-sized THEL demonstrator to evaluate the effectiveness of high energy lasers (HELs) to defeat the threat posed by Katyusha and similar short range artillery rockets. The THEL ACTD is an integration effort that supports the active defense pillar of Theater Missile Defense. The Radar Power Technology will develop technology for lighter, smaller, and more fuel efficient radar systems. Acoustic Technology Research will Develop and demonstrate the benefit of acoustic technologies employed on the surface or on airborne platforms to detect and assist in classification of high priority targets and cruise missiles.

#### FY 1999 Accomplishments:

• 12038 Continued THEL integration and field testing at HELSTF.

Total 12038

#### FY 2000 Planned Program:

- 9545 Completion of the THEL system demonstration test and evaluation at HELSTF.
- 3818 Radar Power Technology demonstrate use of distributed power to drive radar sub-array; demonstrate S/N improvement based on advanced signal processing.
- 3818 Acoustic Technology Research Develop experimental hardware and software. Conduct field test for signature characterization. Develop concept for elevated acoustic sensor system to detect stealthy battlefield threats. Develop concept for low frequency acoustic detection system.
- 909 Family of Systems Simulators
- 528 Small Business Innovative Research/Small Business Technology Transfer Programs (SBIR/STTR)

Total 18618

C. <u>Acquisition Strategy:</u> On 18 Jun 99, the THEL contract was restructured to provide a cost sharing arrangement where the US pays 25%, Israel pays 25%, and TRW pays 50% of the cost until the THEL system successfully shoots down a rocket.

Project D989 Page 6 of 14 Pages Exhibit R-2A (PE 0603308A)

# DATE **ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)** February 2000 PE NUMBER AND TITLE BUDGET ACTIVITY PROJECT 0603308A Army Missile Defense Systems 4 - Demonstration and Validation D989 Integration FY 2001 D. Schedule Profile FY 1999 FY 2000 FY 2002 FY 2003 FY 2004 FY 2004 FY 2005 **Initiate Long Leads & Fabrication** 2<sup>nd</sup> Qtr Complete Fabrication/Integration Complete TRW THEL ACTD Testing 4<sup>th</sup> Qtr Complete HELSTF Field Testing 3<sup>rd</sup> Qtr

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Project D989

Exhibit R-2A (PE 0603308A)

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							DATE February 2000		
BUDGET ACTIVITY 4 - Demonstration and Validation		00	NUMBER AND 603308A A tegration		sile Defe	nse Syst	tems		PROJECT <b>D990</b>
COST (In Thousands)	FY1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost
D990 Space and Missile Defense (SMD) Integration	2983	2890	3398	3566	3847	9145	9158	Continuing	Continuing

A. <u>Mission Description and Justification</u>: HQDA General Order No. 5, 1 March 1998, designated the US Army Space and Missile Defense Command (USASMDC), the specified proponent for space and National Missile Defense (NMD) and the operational integrator for Theater Missile Defense (TMD). In response to this designation, the existing USASMDC elements were reorganized and merged to form the Force Development and Integration Center (FDIC). This project funds the FDIC, a major support element of USASMDC, created to execute the specified proponency role of USASMDC by developing space and NMD solutions to Doctrine, Training, Leader Development, Organization, Materiel, and Soldiers (DTLOMS) and execute their implementation. This project funds the production of requirements for hardware and software solutions, interfaces with technology development, and development of operational and system architectures for Space, NMD and TMD. In addition, this project funds analysis and experimentation designed to integrate the pillars of TMD (active defense, passive defense, attack operations, and battle management/command, control, communications, computers, and intelligence functions) and to input Army TMD requirements into Joint forums. These inter-pillar and intra-pillar products, required to accomplish the integrated TMD mission, exceed the scope of other programs. This program also supports Aviation and Artillery attack operation systems and passive missile defense material solutions. The Microelectromechanical System (MEMS) program will develop generic packaging technologies applicable to a wide array of MEMS structures and applications. The program will define and demonstrate these packaging technologies on a MEMS monitoring system for space and missile defense applications. The MSI program will demonstrate the enhanced detection of weapons of mass destruction using miniature sensor designs and rapid methods.

#### **FY 1999 Accomplishments:**

• 2983 Developed and published FM 40-1 (JTAGS Operations), TP 525-91 (TMD Integrating Concept) and Theater Missile Defense (TMD) Master Plan. Developed and established the Army Space Master Plan, the Functional Area (FA) 40, Space Operations Officer Personnel Proponency Office and began developing the FA 40 Training Course. Participated as Army Lead in Joint TAMD and JMAA processes. Completed the NMD ORD.

Total 2983

#### FY 2000 Planned Program:

- Space and Missile Defense Plan, develop, and execute concepts and DTLOMS solutions for Space and NMD. Represent users of space and NMD in development of operational and training requirements and test and evaluation to include SBIRS, M3P/JTAGS and space control capabilities. Lead Army's efforts in Joint Theater Missile Defense (JTMD) architecture development. Expand Space and TMD Master Plans to the 2010 time frame. Sponsor exploration of future space and missile defense warfighting efforts. As the FA 40 personnel proponent, ensure that the Army's Space Operations Officers are thoroughly trained and assigned effectively to meet the needs of Joint and Army commanders.
- 6223 Microelectromechanical System Define opportunities for MEMS packaging. Initiate tasks in development of packaging demonstration.

Project D990 Page 8 of 14 Pages Exhibit R-2A (PE 0603308A)

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit) BUDGET ACTIVITY 4 - Demonstration and Validation PE NUMBER AND TITLE 0603308A Army Missile Defense Systems Integration PROJECT D990

#### FY 2000 Planned Program: (continued)

- 1915 Aero-acoustics Instrumentation Technology Test facility development; high frequency sensor development; and composite structure dynamic pressure instrumentation.
- 2872 Missile System Integration Demonstrate a field portable device for detection; complete design of miniaturized sensor; complete rapid spectral analysis method.
- 14073 Missile Defense Flight Experiment Support Support flight test experiment in the FY 01 flight from the Kodiak Launch complex.
- To Small Business Innovative Research/Small Business Technology Transfer Programs (SBIR/STTR)

Total 28900

#### FY 2001 Planned Program:

• 3398 Space and Missile Defense - Increase FDIC's efforts to plan, develop, and execute concepts and DTLOMS solutions for Space and NMD. Represent users of space and NMD in development of operational and training requirements and test and evaluation to include SBIRS, M3P/JTAGS and space control capabilities. Lead Army's efforts in developing and executing Joint Theater Missile Defense (JTMD) architecture. Expand Space and TMD Master Plans beyond the 2010 time frame. Sponsor exploration of future space and missile defense warfighting efforts. As the personnel proponent for space operations officers, ensure that the Army's Space Operations Officers (FA 40) are thoroughly trained and assigned effectively to meet the needs of commanders.

Total 3398

- **B.** Other Program Funding Summary: There are no other related efforts.
- C. <u>Acquisition Strategy:</u> Program is continuous. Various performers will conduct planned accomplishments.

D. Schedule Profile	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2004	FY 2005
Continue development/synchronization of space	1-4 Qtrs							
and NMD DTLOM solutions & TMD integration,								
& execute personnel proponency responsibilities.								

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#### DATE **ARMY RDT&E COST ANALYSIS (R-3)** February 2000 **BUDGET ACTIVITY** PE NUMBER AND TITLE **PROJECT** 4 - Demonstration and Validation 0603308A Army Missile Defense Systems D990 Integration I. Product Development: Not applicable Performing Activity & FY 2000 II. Support Costs FY 1999 FY 2000 Contract Total FY 1999 FY 2001 FY 2001 Cost To Total Target Method & Location PYs Cost Cost Cost Award Cost Award Complete Cost Value of Award Type Date Contract Date Date a. Govt Support and Various, VA **MIPR** 5350 2983 28900 3398 Cont Cont CPFF, VAR Support Contracts Subtotal Support Costs: 5350 2983 28900 3398 Cont Cont III. Test and Evaluation: Not applicable IV. Management Services: Not applicable Project Total Cost: 5350 2983 28900 3398 Cont Cont Page 10 of 14 Pages Exhibit R-3 (PE 0603308A) Project D990

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							DATE February 2000		
BUDGET ACTIVITY 4 - Demonstration and Validation		06	NUMBER AND 603308A Ategration		sile Defe	nse Syst	ems		PROJECT <b>D997</b>
COST (In Thousands)	FY1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost
D997 Space and Missile Defense Battlelab (SMDBL)	16647	1401	9175	12194	12564	12810	13114	Continuing	Continuing

A. <u>Mission Description and Justification</u>: Project D997 funds the development of warfighting concepts, focuses military science and technology research, and conducts warfighting experiments, within the Space and Missile Defense Battlelab (SMDBL), (formerly the Missile Defense Battle Integration Center (SMDBIC). The project will provide users and material developer results from experimentation programs, operational analyses, and synthetic battlefield models, simulations, and tools for integrating missile defense and space assets and supporting requirement development activities. The mission of the SMDBL is to integrate space and missile defense into Force XXI/ joint and combined operations through the planning, execution, and analysis of warfighting experiments and technology demonstrations in order to examine advanced concepts and technology which enhance the Commander's capability to fight and win on the 21<sup>st</sup> century battlefield. This type integration, experimentation, analysis of space and missile defense is not done elsewhere in the Army.

#### **FY 1999 Accomplishments:**

Conducted experimentation for the following: Army Experiment; III Corps Warfighter Experiment; U. S. Army Central Command Deep Operations Coordination Cell Exercise; Joint Project Optic Windmill; Northern Edge 99; Joint Task Force Exercise; Roving Sands; Ulchi Focus Lens; Battle Command Reengineering experiment; No Horizons Exp; Weather Army Battle Command System Integration; Meteorological Automated Sensor & Transceivers Evaluation; Silent Lightening; and Force Warning Exp. Deployed weather satellite workstation to Albania; developed SMDC Experimentation Campaign Plan, linking Army and Joint Exp. Campaign Plans; developed experiment plans for the Discoverer II Program. Completed additional development of the Synthetic Battlefield Environment, to include various interfaces to enhance the realism and fidelity of missile defense training, exercises, and testing. Provided enhancements to the Synthetic Battlefield Center (SBC) to support both customer and internally funded exercises, and warfighter tactical workstation stimulation testing. Conducted stand alone training events, incorporating advanced missile defense hardware/software products linking simulations to tactical workstations, and further enhanced After Action Review (AAR) capabilities for Experiments, Exercises, Training and Analysis. Developed Fire Support Simulation Tools (FSST) and the Digital Battle Staff Trainer (DBST). Developed and field tested prototype simulation and training tools including ARCTIC; Tactical Simulation Interface Unit (TSIU) and the STALKER. "Fly away package" for 32nd AAMDC modernization. Performed space and missile defense studies and analyses, including Space Control Map Exercise DTLOMS solutions for a space threat in the 2010 timeframe; Space Mission Area Analysis; Joint Theater & Air Missile Defense (JTAMD) related analysis; analyses of advanced concepts & technologies. Incorporated existing testbeds and migrated to the DOD's High-level Architecture. Provided modeling, simulation and advanced visualization capabilities for battle lab experiments, trainers, material developers and other decision-makers.

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	,	ARMY RDT&E BUDGET ITEM JUSTIFIC	CATION (R-2A Exhibit)  PE NUMBER AND TITLE	DATE February 2000	
4 - Den	ACTIVITY <b>nonstrat</b>	PROJECT D997			
FY 1999	_	shments: (continued)			
•	738	Established "space" site in Warfighter Simulation (WARSIN forces (SAF) beta code; established plan to develop a space space functionality into Battle Command Training Program	& missile defense models & simulation investment st		
Total	16647				
FY 2000 I	Planned Pr	rogram:			
•	5957	Plan, develop, and execute SMDBL experiments in coordinate Joint Contingency Force Advanced Warfighter Experiment Enroute Mission Planning and Rehearsal System (EMPRS) Integration. In addition, Total Defender Experiment; No Hoplan; and Battlefield Command Reengineering Initiative Experiments and Plan is a coordinate of the Plan in the Plan	(AWE) - Tactical Weather – IMETS; Space-Based For and Army Space Exploitation Demonstration Program or izons Experiment; Black & White Integration Phase	orced Warning; Eagle Vision II; and m/Army Battle Control System	
•	5038	Plan, develop, execute SMDBL participation on Army/Joint Digital Battle Simulation Tool Follow-On, and Optic Winds High Level Architecture compliance.	Exercise and Training events, to include Strike Force		
•	1570	Model and simulation infrastructure to support experimenta continuation of M&S investment strategy, incorporate space the Joint Warfighting Simulation (JWARS), WARSIM fund	e and missile defense functionality in BCTP events; in		
•	1155	Operational analysis support to space and missile defense exoperational analysis, including establishment of capability to simulation; analysis of military utility of space-based radar a (FIRESIM) to simultaneously conduct analysis of active defense	speriment programs and support to other SMDC and o conduct analysis of the impacts of space-based sense and spectral imagery; form federation between EADS	ors in an approved Army	
• Total	290 14010	Small Business Innovative Research/Small Business Technology	ology Transfer Programs (SBIR/STTR)		
FY 2001 I	Planned Pr 3783	Conduct Missile Defense Integration & Experiments and Ex Simulations Support Tools Digital Battlefield Sustainment Tools Warfighter Experiment; Hardware/Software Integration Cer	Trainer; Foal Eagle; Fleet Battle; No Horizons Phase		
•	3563	Conduct Space Experimentation & Exercises – Battle Comr (EMPRS) Phase II; Light Forces Battle Command Advance	nand Reengineering Initiative (BCRI); Enroute Missi	on Planning & Rehearsal System	
Project D	997	Page	12 of 14 Pages Exhib	oit R-2A (PE 0603308A)	

ARMY RDT&E BUDGET ITEM JUSTIFIC	DATE February 2000	
BUDGET ACTIVITY  4 - Demonstration and Validation	PE NUMBER AND TITLE  0603308A Army Missile Defense System Integration	ems PROJECT D997
FY 2001 Planned Program: (continued)  • 1829 Develop Models, Simulations, and Assessment Tools – Enh modeling and simulation infrastructure for experiments, exertion of the program: (continued)  Total 9175		mulation (WARSIM); maintain
B. Other Program Funding Summary: There are no other related efforts.		
C. Acquisition Strategy: Program is continuous. Contracts/Tasks Orders are in	place for obligation. Various performers will conduct p	lanned accomplishments.
<b>D.</b> <u>Schedule Profile</u> : Program is continuous. Various performers will conduct pl	anned accomplishments	
Project D997 Page	13 of 14 Pages Exhibit	: R-2A (PE 0603308A)

#### DATE **ARMY RDT&E COST ANALYSIS (R-3)** February 2000 BUDGET ACTIVITY PE NUMBER AND TITLE **PROJECT** 4 - Demonstration and Validation 0603308A Army Missile Defense Systems D997 Integration I. Product Development: Not applicable FY 2000 II. Support Costs FY 1999 FY 2000 Target Performing Activity & Total FY 2000 FY 2001 FY 2001 Cost To Contract Total Method & Award Award Location PYs Cost Cost Cost Cost Complete Cost Value of Award Cost Contract Type Date Date b. Experiments, Exercises, CPAF/CPFF Various, AL & CO 28254 12166 9210 Cont 54305 4675 Enhancements. Maintenance, analysis Govt Support and MIPR Various, AL & CO 22781 9000 4481 4800 4500 Cont Support Contracts Subtotal Support Costs: 37254 16647 14010 9175 77086 III. Test and Evaluation: Not applicable IV. Management Services: Not applicable Project Total Cost: 37254 16647 14010 9175 77086 Page 14 of 14 Pages Exhibit R-3 (PE 0603308A) Project D997